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A	APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/901,592		07/11/2001	William Holm	0104-0354P	7653
	2292	7590	05/04/2005		EXA	MINER
	BIRCH STI	07/11/2001 William Holm 7590 05/04/2005 STEWART KOLASCH & BIRCH	FULLER, ERIC B			
			A 22040-0747		ART UNIT	PAPER NUMBER
		,			1762	

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/901,592	HOLM ET AL.					
Office Action Summary	Examiner	Art Unit					
	Eric B. Fuller	1762					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a rition. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed or	26 January 2005.						
2a)☐ This action is FINAL . 2b)∑	,—						
3) Since this application is in condition for a	•						
closed in accordance with the practice u	nder <i>Ex part</i> e Q <i>uayl</i> e, 1935 C.D). 11, 453 O.G. 213.					
Disposition of Claims		·					
4)	ithdrawn from consideration. re rejected.						
Application Papers							
9)☐ The specification is objected to by the Ex	aminer.						
	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the	•						
11) The oath or declaration is objected to by	the Examiner. Note the attached	J Office Action of form P10-192.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	application No received in this National Stage					
Attachment(s)	 .	(DTO 116)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9) 		Summary (PTO-413) s)/Mail Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO/ Paper No(s)/Mail Date 		nformal Patent Application (PTO-152) 					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7, 8, 19, 20, 31, 34, and 37-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang et al. (US 6,100,787) in view Ciardella et al. (US 5,711,989), in further view of Chabert et al. (US 4,660,771) and Madeira (US 3,738,760).

Huang teaches that although screen-printing is typically used to coat broad surfaces with a viscous paste in a short amount of time, it often leads to uneven coatings (column 1, lines 10-31). The reference fails to explicitly teach smoothing these coatings. However, Ciardella discloses a nozzle jetting apparatus for jetting a viscous material. The drops are precisely sized and placed in specific locations (column 5, line 25 - column 6, line 64). Thus, the two references teach two different processes for applying viscous materials. One that is applicable for coating broad surfaces in a relatively short amount of time, but lacks precision, and one that is more precise, but obviously more time consuming if used to coat an entire substrate uniformly.

This is analogous to the processes of Chabert and Madeira. Chabert teaches large spray guns for applying paint to entire automobiles in a relatively short amount of

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time. Madeira teaches small brushes for use in applying touch-up paint in order to correct defects in the originally applied paint. This is more precise than the spray guns of Chabert, but would obviously be more time consuming if used to paint the entire substrate. From the references, it can be inferred that one would not use a small paint brush to paint the entire automobile and would neither use a large spray gun to correct a small defect. There is an obvious trade-off between precision and deposition time, with more precision requiring more deposition time. Just as the Chabert and Madeira teaches using the less precise method (better time efficient) for coating the substrate and using the more precise method (less time efficient) for correcting defects, it would have been obvious to use screen printing process taught by Huang (the less precise method) to coat the entire surface of the substrate and use the jetting means taught by Ciardella (the more precise method) to correct the defects. By doing so, one maximizes uniformity of the coating while minimizing coating time.

All dependent limitations are taught, or made obvious, as shown in previous Office Actions.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang et al. (US 6,100,787) in view of Ciardella et al. (US 5,711,989), Chabert et al. (US 4,660,771), and Madeira (US 3,738,760), as applied to claims 2 or 3 above, and further in view of Itsuji (US 5,151299).

Huang, in view of Ciardella, Chabert, and Madeira, teaches the limitations of claims 2 and 3, but fails to teach the correcting step comprises removing some of the

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material. However, Itsuji teaches that screen-printing often results in the deposited material being blurred at the edges (column 1, lines 25-33). This is corrected by removing some of the material such that the edges are more defined (column 1, lines 44-63). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to remove some of the coating in Huang, in view of Ciardella, Chabert, and Madeira, such that the edges of the deposited material are better defined and not blurred.

Claims 1-5, 7, 8, 19, 20, 31, 34, and 37-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang et al. (US 6,100,787) in view Skinner et al. (US 6,613,240 B2).

Huang teaches that although screen-printing viscous pastes it often leads to uneven coatings (column 1, lines 10-31). The reference fails to explicitly teach smoothing these coatings. However, Skinner teaches ionized jetting means for smoothing coatings. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize the jetting means taught by Skinner in the process taught by Huang. By doing so, one would reap the benefits of increased smoothness.

All other limitations are taught, or made obvious, by Huang, as shown in previous Office Actions.

Response to Arguments

Applicant argues that Marumoto fails to teach correcting the errors of an all ready deposited coating, and thus fails to make obvious the claimed limitation. Examiner agrees and has withdrawn the rejections of the previous Office Action. Applicant's arguments are most in view of the new grounds of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B Fuller whose telephone number is (571) 272-1420. The examiner can normally be reached on Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P Beck, can be reached on (571) 272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

EBF